



FIG. 1

FIG. 2

$$\begin{aligned}
 & \text{Slot} = \begin{bmatrix} z_1 & z_5 \cdots z_{4n-3} & \text{pilots} & z_{4n-2}^* \cdots z_6^* & z_2^* \\ z_2 & z_6 \cdots z_{4n-2} & \text{pilots} & -z_{4n-3}^* \cdots -z_5^* & -z_1^* \\ \tilde{z}_3 & \tilde{z}_7 \cdots \tilde{z}_{4n-1} & \text{pilots} & -\tilde{z}_{4n}^* \cdots -\tilde{z}_8^* & -\tilde{z}_4^* \\ \tilde{z}_4 & \tilde{z}_8 \cdots \tilde{z}_{4n-2} & \text{pilots} & \tilde{z}_{4n-1}^* \cdots \tilde{z}_7^* & \tilde{z}_3^* \end{bmatrix} + \\
 & \quad \begin{matrix} 200 \\ \searrow \\ 210 & 220 \end{matrix} \quad \begin{matrix} 250 \\ \downarrow \\ 240 & 230 \end{matrix}
 \end{aligned}$$

FIG. 3

$$\begin{aligned}
 & 300 \quad \downarrow \\
 & \quad \quad \quad 250 \quad \downarrow \\
 & slot = \begin{bmatrix} z_1 z_5 \cdots z_{4n-3} & pilots & z_{4n-2}^* \cdots z_6^* z_2^* \\ z_2 z_6 \cdots z_{4n-2} & pilots & -z_{4n-3}^* \cdots -z_5^* -z_1^* \\ z_3 z_7 \cdots z_{4n-1} & pilots & z_{4n}^* \cdots z_8^* z_4^* \\ z_4 z_8 \cdots z_{4n} & pilots & -z_{4n-1}^* \cdots -z_7^* -z_3^* \end{bmatrix} \\
 & \quad \quad \quad \uparrow \quad \quad \quad \uparrow \quad \quad \quad \uparrow \quad \quad \quad \uparrow \\
 & 310 \quad 320 \quad \quad \quad 340 \quad 330
 \end{aligned}$$

FIG. 4

400 ↘

$$\text{Slot} = \begin{bmatrix}
 z_1 & z_7 & \cdots & z_{6n-5} & \text{pilots} & z^*_{6n-4} & \cdots & z^*_8 & z^*_{2} \\
 z_2 & z_8 & \cdots & z_{6n-4} & \text{pilots} & -z^*_{6n-5} & \cdots & -z^*_{7} & -z^*_{1} \\
 z_3 & z_9 & \cdots & z_{6n-3} & \text{pilots} & z^*_{6n-2} & \cdots & z^*_{10} & z^*_{4} \\
 z_4 & z_{10} & \cdots & z_{6n-2} & \text{pilots} & -z^*_{6n-3} & \cdots & -z^*_{9} & -z^*_{3} \\
 z_5 & z_{11} & \cdots & z_{6n-1} & \text{pilots} & z^*_{6n} & \cdots & z^*_{12} & z^*_{6} \\
 z_6 & z_{12} & \cdots & z_{6n} & \text{pilots} & -z^*_{6n-1} & \cdots & -z^*_{11} & -z^*_{5}
 \end{bmatrix}$$

FIG. 5

500



$$\text{Slot} = \begin{bmatrix} z_1 z_5 \cdots z_{4n-3} z_3 z_7 \cdots z_{4n-1} \text{ pilots} & -z_{4n-2}^* \cdots -z_6^* -z_2^* -z_{4n}^* \cdots -z_8^* -z_4^* \\ z_2 z_6 \cdots z_{4n-2} z_4 z_8 \cdots z_{4n} \text{ pilots} & z_{4n-3}^* \cdots z_5^* z_1^* z_{4n-1}^* \cdots z_7^* z_3^* \\ z_3 z_7 \cdots z_{4n-1} z_1 z_5 \cdots z_{4n-3} \text{ pilots} & -z_{4n}^* \cdots -z_8^* -z_4^* -z_{4n-2}^* \cdots -z_6^* -z_2^* \\ z_4 z_8 \cdots z_{4n} z_2 z_6 \cdots z_{4n-2} \text{ pilots} & z_{4n-1}^* \cdots z_7^* z_3^* z_{4n-4}^* \cdots z_5^* z_1^* \end{bmatrix}$$